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SHARP®

DVD Video Player
MODEL

DV-SL10(SA)

OPERATION MANUAL

RW COMPATIBLE

Please read this Operation Manual carefully before using your DVD Video player.

The region number for this DVD player is 2.

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SAFETY INFORMATION

Note:
This Player can be used only where the power supply is AC 110V-240V, 50/60Hz. It cannot be used elsewhere.

CAUTION:

USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.

AS THE LASER BEAM USED IN THIS PLAYER IS HARMFUL TO THE EYES, DO NOT ATTEMPT TO DISASSEMBLE THE CABINET. REFER SERVICING TO QUALIFIED PERSONNEL ONLY.

WARNING:

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS EQUIPMENT TO RAIN OR MOISTURE.

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, AND ANNOYING INTERFERENCE, USE THE RECOMMENDED ACCESSORIES ONLY.

TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS APPARATUS TO DRIPPING OR SPLASHING, NO OBJECTS FILLED WITH LIQUIDS, SUCH AS VASES, SHOULD BE PLACED ON THE APPARATUS.

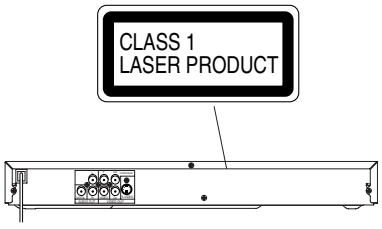
Laser Diode Properties
Material: GaAs
Wave length: DVD: 655 nm
CD: 790 nm
Emission Duration: Continuous
Laser output: Max. 0.8 mW

Power Cord Protection

To avoid any malfunctions of the Player, and to protect against electric shock, fire or personal injury, please observe the following.

- Hold the plug firmly when connecting or disconnecting the AC power cord.
- Keep the AC power cord away from heating appliances.
- Never put any heavy object on the AC power cord.
- Do not attempt to repair or reconstruct the AC power cord in any way.

- This Player is classified as a CLASS 1 LASER product.
- The CLASS 1 LASER PRODUCT label is located on the rear cover.
- This product contains a low power laser device. To ensure continued safety do not remove any cover or attempt to gain access to the inside of the product. Refer all servicing to qualified personnel.



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Location and Handling

- Do not cover or place the Player in enclosed spaces to prevent excessive temperature build up.
- Do not place the Player in direct sunlight, or near heat sources.
- Keep the Player away from strong magnetic objects.
- Do not place any object containing water or other liquids on the Player. In the event that liquid should enter the cabinet, unplug the Player immediately and contact the retailer or service centre approved by SHARP immediately.
- Do not remove the Player cabinet. Touching parts inside the cabinet could result in electric shock and/ or damage to the Player. For service and adjustment inside the cabinet, call a qualified dealer or service centre approved by SHARP.

Nonuse Periods

When the Player is not being used, switch the Player to the Standby mode.
When left unused for a long period of time, the Player should be unplugged from the household AC outlet.

No Fingers or Other Objects Inside

Do not put any foreign object on the disc tray.

Stacking

Place the Player in a horizontal position, and do not place anything heavy on it.

Condensation

Moisture may form on the pickup lens in the following conditions:

- immediately after a heater has been turned on.
- in a steamy or very humid room.
- when the Player is suddenly moved from a cold environment to a warm one.

If moisture forms inside this Player, it may not operate properly. In this case, turn on the power and wait about one hour for the moisture to evaporate.

Cleaning

Unplug your Player before cleaning. Use a damp cloth for cleaning. Do not use cleaning fluids or aerosols which could enter the Player and cause damage, fire, or electrical shock. These substances may also deteriorate the finish of your Player.

If there is Noise Interference on the TV While a Broadcast is being Received

Depending on the reception condition of the TV, interference may appear on the TV monitor while you watch a TV broadcast and the Player is left on. This is not a malfunction of the Player or the TV. To watch a TV broadcast, turn off the Player.

Service

Do not attempt to service this Player yourself. Please refer any service to the nearest service centre approved by SHARP.

Copyright

Audio-visual material may consist of copyrighted works which must not be recorded without the authority of the owner of the copyright. Please refer to relevant laws in your country.

Copy Protection

This Player supports Macrovision copy protection. On DVDs that include a copy protection code, if the contents of the DVD are copied using a VCR, the copy protection code prevents the videotape copy from playing normally.

Apparatus Claims of U.S.Patent Nos. 4,631,603, 4,577,216, 4,819,098 and 4,907,093 licensed for limited viewing uses only.

This product incorporates copyright protection technology that is protected by method claims of certain U.S. patents and other intellectual property rights owned by Macrovision Corporation and other rights owners. Use of this copyright protection technology must be authorized by Macrovision Corporation, and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision Corporation. Reverse engineering or disassembly is prohibited.

Recommended Measures for Optimum Picture Excellence

The Player is a precision device that is constructed using extremely accurate technology.
Soiling or friction affecting the pickup lens or disc drive can impair the image quality. At the worst, neither video nor audio will be played back. To maintain optimum picture quality, the Player should be serviced (cleaned and replacement of some parts) every 1,000 hours. Note that this period varies depending on the environment (temperature, humidity, dust, etc.) in which the Player is used. Contact your authorized Sharp supplier for details.

Do not attempt to clean the pickup lens yourself.

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FEATURES

- **Dolby Digital sound**
  This player can handle Dolby Digital surround sound having 5.1 channels when connected to a Dolby Digital decoder.
- **Still/fast/slow/step playback**
- **Random playback for audio CD and MP3**
- **Programme playback for audio CD and MP3**
- **DVD menus in a desired language**
- **Screen saver/Auto power-off functions**
  The screen saver programme starts when there is no input from the player for five minutes in the stop mode. When the screen saver programme is activated for 30 minutes, the power is automatically turned off.
- **Subtitles in a desired language**
- **Selecting a camera angle**
- **Choices for audio language and sound mode**
- **Parental lock**
- **Automatic detection of discs**
  This player automatically detects if a loaded disc is DVD, audio CD, videoCD or MP3 on disc.
- **Playing an MP3 disc**
- **Direct Search**
- **DTS (Digital theater System)**
  Sound system different from Dolby Digital sound system. External DTS decoder required.
- **MPEG audio**
  This player can handle a disc that supports MPEG audio when it is connected to a MPEG decoder.
- **On-screen display**
  Information about the current operation can be displayed on a TV screen, allowing you to confirm the currently active functions (such as programme playback), on the TV screen using the remote control.
- **Search**
  Chapter search / Title search / Track search / Time search
- **Repeat**
  Chapter / Title / Track / Group / All / A-B
- **Zoom**
- **Marker**
  The part designated by user can be called back.
- **Resume Play**
- **Virtual Surround**
- **Component Video Out Jacks**
  Jacks located on the back of the DVD Player which are used to send high-quality video to a TV via Component Video In Jacks.
- **Dimmer**
- **Bit rate indication**
- **DRC (Dynamic range control)**
  You can control the range of sound volume.
- **Digital Gamma Setting**
- **Video Out**
  When playing an NTSC disc, select either PAL or AUTO(NTSC) correspondingly to your TV system.

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INTRODUCTION

Symbols Used in this Manual

The following symbols appear below in some headings and notes in this manual, with the following meanings!

DVD

: Description refers to playback of DVD video discs. (including DVD-RW/R discs)

CD

: Description refers to playback of audio CDs.

VCD / **VCD** (without PBC function)

: Description refers to playback of video CDs.

MP3

: Description refers to playback of MP3 discs.

DVD-RW (VR mode)

: Description refers to playback of the VR mode (Video Recording format).

*The VR mode (Video Recording format) is a recording mode to enjoy editing the programme or "manual mode" for recording in desired resolution and time.

(QUICK)

: Basic setup can be performed more quickly by selecting (QUICK setup menu).

Manufactured under license from Dolby Laboratories. "Dolby" and the double-D symbol are trademarks of Dolby Laboratories.

"DTS" and "DTS Digital Out" are trademarks of Digital Theater Systems, Inc.

Supplied Accessories

- Remote control
- Two AA batteries
- Operation Manual
- Video / Audio cable

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ABOUT THE DISCS

Playable Discs

The following discs can be played back on this DVD player.

• DVD video • DVD-R/RW* • Audio CD • CD-R/RW* • MP3* • Video CD

*Depending on the types or the writing method of the medium some discs can not be played.

- Some DVD-R/RW, or CD-R/RW discs made on personal computers, or on DVD recorders may not be played back properly due to the factors such as scratches, dirt or special properties of the disc.
- Discs made on personal computers may not playback properly due to compatibility or settings in the recording software. We recommend always to use the standard settings and correctly formatted discs. (Please contact the sofware supplier for more details.)

This DVD player conforms to the PAL colour system. Also you can play discs recorded with the NTSC system via a PAL system TV set.

- Some discs include region codes as shown below.

- The number inside the symbol refers to a region of the world, and a disc encoded in a specific region format can only be played back on DVD player with the same region code.

RW COMPATIBLE :This label indicates playback compatibility with DVD-RW discs recorded in VR mode (Video Recording Format).

NOTE

- This player cannot play the DVD-RW that supports CPRM (Contents Protection for Recordable Media).

ABOUT THE PBC FUNCTION OF VIDEO CD

This unit conforms to ver.1.1 and ver.2.0 of VIDEO CD standard, with PBC function.
Ver.1.1 (without PBC function): You can enjoy playback picture as well as music CD.
Ver.2.0 (with PBC function): When using a VIDEO CD with PBC function, "PBC" appears on the display.

What is PBC? "PBC" stands for the PlayBack Control. You can play interactive software using a menu screens. Refer to instructions of VIDEO CD.

For Customer Use:
Read carefully the information located at the bottom of your DVD player and enter below the Serial No.Retain this information for future reference.
Model No. DVD player : DV-SL10(SA)
Serial No. _____

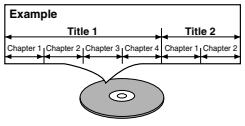
The following discs cannot be played back on this DVD player.

• DVD with region codes other than 2 or ALL. • DVD-ROM
• DVD-RAM (Never play back, otherwise malfunction may result.)
• CD-ROM • VSD • CDV (Only plays back the audio part.)
• CD-G (Only plays back the sound.) • CD-I (Never play back, otherwise malfunction may result.)
• Super Audio CD • Photo CD (Never play back, otherwise malfunction may result.)

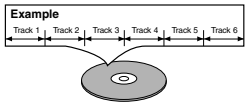
Any other discs without compatibility indications.

Disc Types

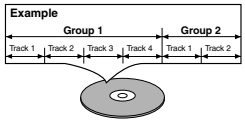
[DVD]
Data on a DVD is divided into sections called "titles", and then into subsections called "chapters", each of which is given a title or chapter number. Playback conditions are preset on some DVD video discs, and these playback conditions take priority over user operations on this player. If a function you selected do not run as desired, refer to the manual accompanying the disc.



[Audio CD / Video CD]
Data on an audio CD or a video CD is divided into sections called "tracks", each of which is given a track number.



[MP3]
Data on a MP3 is divided into sections called "groups", and then into subsections called "tracks", each of which is given a group or track number.



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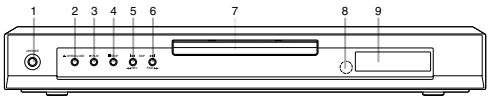
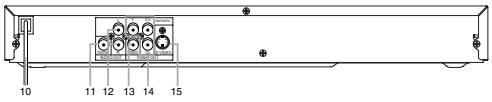
FUNCTIONAL OVERVIEW

FRONT PANEL



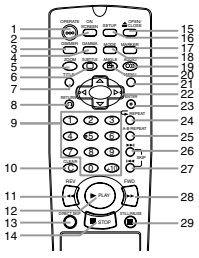
REAR VIEW



1. **OPERATE**
   to switch the player to ON or OFF
2. **OPEN/CLOSE**
   to open/close the disc tray
3. **PLAY**
   to start or resume disc playback
4. **STOP**
   to stop playback
5. **SKIP |◄◄ / REV◄◄**
   goes to previous chapter or track during playback; press and hold for 1.5 seconds for a reverse search
6. **SKIP ►►| / FWD ►►**
   goes to next chapter or track during playback; press and hold for 1.5 seconds for a forward search
7. **Disc tray**
8. **Remote sensor window**
9. **Display**
10. **MAIN (AC Power Cord)**
    connect to a standard AC outlet
11. **DIGITAL AUDIO OUT (coaxial)**
    connect to AUDIO inputs of a digital (coaxial) audio equipment
12. **AUDIO OUT (Left/Right)**
    connect to AUDIO inputs of an amplifier, receiver or stereo system
13. **VIDEO OUT**
    connect to the Video Input of a TV
14. **COMPONENT VIDEO OUT**
    connect to a TV with Component video in jacks
15. **S-VIDEO OUT**
    connect to a TV with S-Video inputs

Caution: Do not touch the inner pins of the jacks on the rear panel. Electrostatic discharge may cause permanent damage to the player.

REMOTE CONTROL



1. **OPERATE Button [page 12]**
   Press to turn the power on and off.
2. **ON SCREEN Button [page 16]**
   Displays the current status on the TV screen for checking purposes.
3. **DIMMER Button [page 20]**
   Press to change the Panel Display settings.
4. **GAMMA Button [page 18]**
   Press to adjust the black parts of the picture brighter.
5. **ZOOM Button [page 14]**
   Enlarges part of a DVD-reproduced image.
6. **SUBTITLE Button [page 17]**
   Press to select a desired subtitle language.
7. **TITLE Button [page 13]**
   Displays the title menu.
8. **RETURN Button [page 18]**
   Returns to the previous operation.
9. **0-9 numerical key pad [page 14]**
   select numbered items in a menu
   +10
   use this button to enter number 10 and above
10. **CLEAR Button [page 15]**
    Resets a setting.
11. **REV Button [page 14]**
    Fast reverse playback to a desired point.
12. **PLAY Button [page 12]**
    Starts playback of the disc contents.
13. **DIRECT SKIP Button [page 14]**
    Press to locate a desired point.
14. **STOP Button [page 12]**
    Stops operation of the disc.
15. **OPEN/CLOSE Button [page 12]**
    Press to insert discs into or remove them from the tray.
16. **SETUP Button [page 19]**
    Press to enter the setup mode or to change setup items.
17. **MARKER Button [page 18]**
    Press to call back the Marker display.
18. **MODE Button [page 16]**
    Activates programme playback or random playback mode.(CD/MP3) Activates the 3D sound.(DVD)
19. **AUDIO Button [page 17]**
    Press to select a desired audio language or sound mode.
20. **ANGLE Button [page 17]**
    Press to change the camera angle to see the sequence being played back from a different angle.
21. **MENU Button [page 12]**
    Displays the DVD menus.
22. **Arrow Buttons (▼ ▲ ► ◄) [page 12]**
    (left/right/up/down) select an item in the menu
23. **ENTER Button [page 12]**
    Press to accept a setting.
24. **REPEAT Button [page 15]**
    Repeats playback of the current disc, title, chapter or track.
25. **A-B REPEAT Button [page 15]**
    Repeats playback of a selected section.
26. **SKIP UP Button [page 14]**
    Plays back from the beginning of the next chapter or track.
27. **SKIP DOWN Button [page 14]**
    Plays back from the beginning of the current chapter or track.
28. **FWD Button [page 14]**
    Fast forwards playback to a desired point.
29. **STILL/PAUSE Button [page 12]**
    Pause playback temporarily/frame-by-frame playback.

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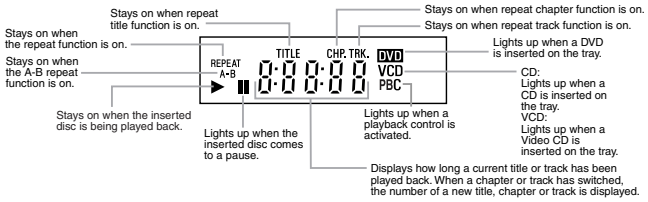
Display


Stays on when repeat title function is on.
Stays on when repeat chapter function is on.
Stays on when repeat track function is on.
Stays on when the repeat function is on.
Lights up when a DVD is inserted on the tray.
Stays on when the A-B repeat function is on.
REPEAT
A-B
TITLE
CHP.
TRK.
DVD
VCD
PBC
CD: Lights up when a CD is inserted on the tray.
VCD: Lights up when a Video CD is inserted on the tray.
Stays on when the inserted disc is being played back.
Lights up when the inserted disc comes to a pause.
Lights up when a playback control is activated.
Displays how long a current title or track has been played back. When a chapter or track has switched, the number of a new title, chapter or track is displayed.

Displays During Operation

	Power on
	No disc inserted or playing DVD Menu
	Tray open
	Tray closed
	Loading the Disc
	Power off

Loading the Batteries

1. Open the battery compartment cover.

2. Insert two AA batteries, with each one oriented correctly.

3. Close the cover.

NOTES

- Do not mix alkaline and manganese batteries.
- Do not mix old and new batteries.

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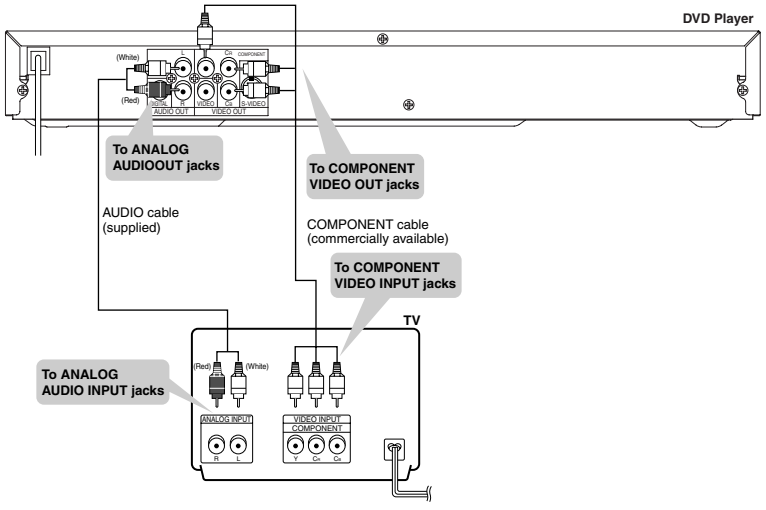
SETTING UP YOUR DVD PLAYER

CAUTION:

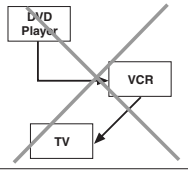
- Be sure to turn off the Player and equipment to be connected before connecting.
- Read through the operation manual for the equipment to be connected.
- Be sure that the colours of the jacks and plugs match up when using a VIDEO/AUDIO cable.
- Be sure to keep the Player connection cables separate from the TV antenna cable when you install the Player, because it may cause electrical interference when you are watching television programmes.
- DTS audio cannot be produced with an analogue connection.

Connecting a TV or a stereo TV that has component video in jacks



CAUTION:

- Do not connect the Player to a VCR. If you view the Picture on your TV after making the connections shown on the right, a picture noise may appear. Connect the Player to your TV directly.



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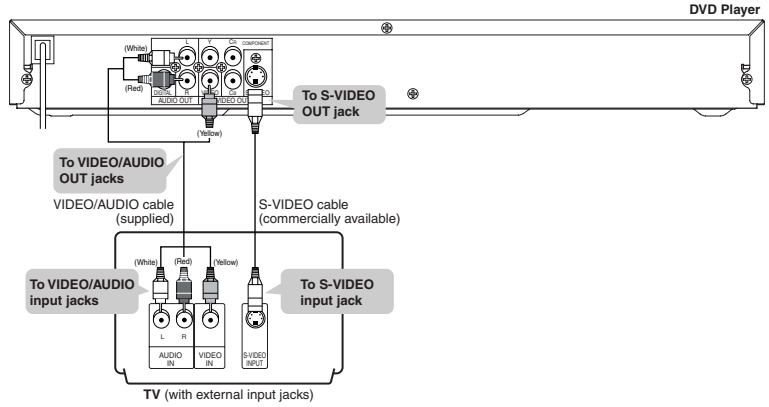
SETTING UP YOUR DVD PLAYER

Connecting a TV Equipped with S-VIDEO Input or VIDEO/AUDIO Input Jacks

The S-VIDEO connection provides a better quality video signal than the VIDEO (COMPOSITE) output. Use a commercially available S-VIDEO cable to connect from the Player to the TV.



- When the Player is connected to a TV using both a VIDEO cable and an S-VIDEO cable, only the S-VIDEO connection is enabled (the VIDEO connection is disabled).
- You will not be able to hear all of the sound being output by the Player if you use the VIDEO/AUDIO cable (supplied) to a monaural TV that has only one AUDIO input jack.

NOTE:

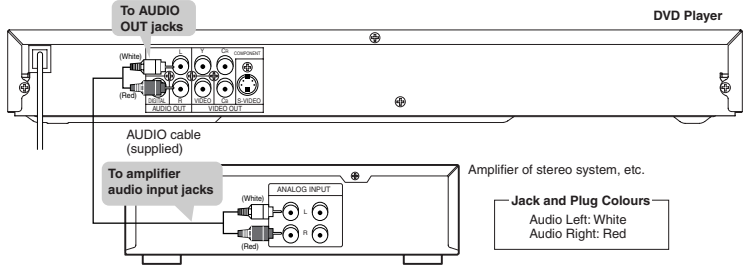
- Be sure that the colours of the jacks and plugs match up when connecting the cable.
- Connect the Player directly to the TV. If you attempt to view video on a TV connected via a VCR, the copy protection function will scramble the picture.
- If you want to listen to the audio through audio equipment, connect only the S-VIDEO or VIDEO cable to the TV.

Connecting to Audio Equipment

Connecting the Player to audio equipment provides normal stereo sound, puls powerful stereo sound enhanced by Dolby Digital (5.1 channel), DTS, and MPEG Audio.

Playing 2 channel audio

■ **Analogue audio connection**



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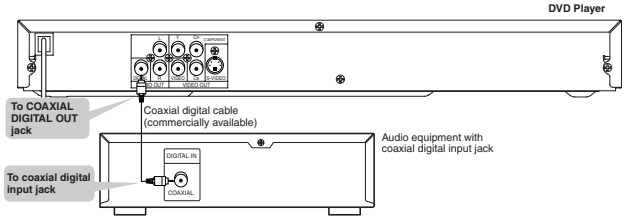
SETTING UP YOUR DVD PLAYER

■ Digital audio connection

You can make this connection using a coaxial digital cable.



Digital Connection to an MD to Record a CD

Some Audio CDs have a short silent section between musical tracks. When sound from discs such as these is digitally recorded by connecting the Player directly to a digital recorder (such as an MD player), the music may be recorded continuously and track numbers may be lost.

■ Digital Connection to Audio Equipment or MD Player without a Dolby Digital Decoder

- Audio CD

  Audio CD discs can be transferred digitally to other equipment such as an MD recorder, play the disc as you would normally with the audio mode set to "L+R" and use the connection shown above. Audio CD's recorded in the DTS format cannot be transferred digitally or via analogue.
- DVD

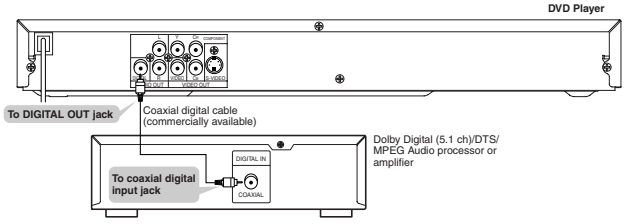
  DVD's recorded in Dolby Digital (5.1 channel), Dolby surround (Pro Logic), DTS or MPEG Audio cannot be connected digitally to external recording equipment such as an MD recorder.
  It may be possible to record Dolby Digital or MPEG Audio via a digital connection if the DVD player output is set to PCM and down mix is set to ON (see page 19 "Audio Settings"). Analgue recording is possible but not for DTS recorded audio. DVD discs with linear PCM audio should play normally.

Playing Dolby Digital (5.1 channel), DTS or MPEG audio

Connecting an amplifier with a Dolby Digital/DTS/MPEG Audio digital surround processor or a Dolby Digital/DTS/ MPEG Audio surround processor to your Player's coaxial digital jack provides richer and more powerful audio play.

■ Digital connection to a processor or amplifier with a coaxial digital input jack

You can make this connection using a coaxial digital cable.


DVD Player
To DIGITAL OUT jack
Coaxial digital cable (commercially available)
Dolby Digital (5.1 ch)/DTS/ MPEG Audio processor or amplifier
To coaxial digital input jack
DIGITAL IN
COAXIAL

NOTES:

- This connection is not possible if the processor or amplifier to which you want to connect does not have a coaxial digital input jack.
- ANALOG AUDIO OUT and AV (TV) of the DVD player are not available on the DTS audio.

HOW TO CONNECT TO A TV WITHOUT AUDIO/VIDEO INPUT JACKS

If your TV does not have RCA type audio and video input jacks it is still possible to connect this DVD player to your TV's 75-ohm coaxial antenna terminal using a commercially available Stereo Audio/Video RF Modulator. Connect the audio and video outputs of the DVD player to the audio and video inputs on the RF Modulator, and then connect the coaxial output of the RF Modulator (usually marked "TO TV") to the 75 ohm coaxial antenna terminal on your TV. Follow the instruction supplied with the RF Modulator for more details.
If your TV's 75 ohm coaxial antenna terminal is already occupied by an antenna or cable box connection, remove that cable from your TV's antenna terminal and reconnect it to the coaxial antenna input terminal of the RF Modulator (usually marked "ANT IN"), then connect the RF modulator to your TV's antenna terminal as described above.

NOTE

- The picture quality from DVD discs will not be as good if the DVD player is connected to the TV's antenna terminal through an RF Modulator.

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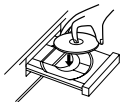
Basic Playback

DVD | CD | DVD-RW (VR mode) | VCD

Getting started

- Turn on the power of the TV, amplifier and any other components which are connected to the DVD.
- Make sure the TV and audio receiver (commercially available) are set to the correct channel.
- When you play NTSC recorded discs the default setting converts this to a modified PAL (see page 20 "Display Settings").

1 Press **OPERATE**.
   • "P-ON" will appear briefly on the display panel.



2 Press **OPEN/CLOSE** to open disc loading tray.

3 Place the chosen disc in the tray, with the label facing up.

4 Press **PLAY**.
   • The tray will close automatically, and playback will then start from the first chapter or track of the disc. If the playback does not start automatically, press PLAY.
   • When you playback the DVD which a title menu is recorded, it may appear on the screen. In this case, refer to "TITLE MENU".

5 Press **STOP** to stop playback.

NOTES:

- A "prohibited icon" may appear at the top-right on the TV screen during operation, warning that a prohibited operation has been encountered by the DVD player or the disc.
- With DVDs that use some titles for playback programme signals, playback may start from the second title, or it may skip these titles.
- During the playback of two layered disc, pictures may stop for a moment. This happens when the 1st layer switches to the 2nd layer. This is not a malfunction.
- A DVD-RW disc recorded in the VR mode may freeze momentarily during playback depending on how the playlist was made and edited (deleted titles, repeated recording).

General Features

DVD or Video CDs may contain menus to navigate the disc and access special features. Press the appropriate numerical key or use **Arrow** (▼/ ▲/ ►/ ◄) to highlight your selection in the DVD main menu and press **ENTER** to confirm.

NOTE:

- Unless stated, all operations described are based on remote control use.

Cancelling PBC* (for playback of a Video CD)

1 Insert a Video CD. (Playback will start automatically.)

2 Press **STOP**.

3 Enter track number of your choice with the **numerical key pad**.

4 PBC is now cancelled and the playback of the Video CD will start.

***What is PBC?**

"PBC" stands for the PlayBack Control. You can play interactive software using a menu screens. Refer to instructions of Video CD.

Pause

DVD | CD | MP3 | DVD-RW (VR mode) | VCD

1 During playback, press **STILL/PAUSE**.
   • Playback will pause and sound will be muted.

2 To continue playback, press **PLAY**.

Disc Menus

DVD

1 Press **MENU**.
   • The DVD main menu will appear.

2 If the feature is not available, ⃠ symbol may appear on the TV screen.

3 If disc menu is available on the disc, audio language, subtitle options, chapters for the title and other options will appear for selection.

4 Press **Arrow** (▼/ ▲/ ►/ ◄) to select an item, and **ENTER** to confirm selection.

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Title Menu

DVD

1 Press **TITLE**.
- The title menu will appear.

2 If the feature is not available, ⊘ symbol may appear on the TV screen.

3 Press **Arrow** (▼/ ▲/ ►/ ◄) to select an item, and **ENTER** to confirm selection.
- Playback will begin at the selected Title.

CALLING UP A MENU SCREEN DURING PLAYBACK

- Press **MENU** to call up the DVD main menu.
- Press **TITLE** to call up the title menu.

VCD

1 The title menu will appear.

2 Press the **numerical key pad** to select the menu. Playback will start.

NOTE:
- Contents of menus and corresponding menu operations may vary between discs. Refer to the manual accompanying the disc for details.

Step by Step Playback

DVD | DVD-RW VR mode | VCD

1 During playback, press **STILL/PAUSE**.
- Playback will pause and sound will be muted.

2 The disc goes forward by one frame each time **STILL/PAUSE** is pressed.

3 To exit step by step playback, press **PLAY**.

Resume / Stop

DVD | CD | VCD | DVD-RW VR mode

1 During playback, press **STOP**.
- Resume message will appear on the TV screen.

2 Press **PLAY**, playback will resume from the point at which playback was stopped.
- To cancel resume, press **STOP** again.
- To stop playback, press **STOP** twice from playback mode.

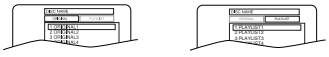
NOTE
- Some Video CDs with PBC function resume playback from the beginning of the track.

Playing the disc recorded in VR mode (Video Recording format)

DVD-RW VR mode

DVDs recorded in VR mode can have a PLAYLIST assigned to alter the order or content to be played. If a PLAYLIST has been created you can choose the ORIGINAL or PLAYLIST option.

1 Press **MENU** in stop mode.
- The current setting screen will appear.
- Pressing **MENU** during playback is not valid.



2 Press ◄ or ► to select ORIGINAL or PLAYLIST.
- PLAYLIST will not be displayed when it has not been made.
- Resume playback will not be possible if you change the setting.

3 Press ▲or ▼to select a title, then press **ENTER**.
- Playback will start.

NOTES:
- [ORIGINAL]: A list of titles which are recorded with a DVD recorder.
  [PLAYLIST]: A list of titles which is made based on the ORIGINAL edited list.
- With discs recorded in VR mode, changing the audio (MAIN, SUB or MAIN+SUB) is effective only when using an analogue connection. Although you may be able to change the settings of the on-screen display, it will not affect the sound when using a digital connection.

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Fast Forward / Reverse Search

DVD | CD | MP3 | DVD-RW (VR mode) | VCD

1 During playback, press **FWD►►** or **REV◄◄** repeatedly to select the required forward or reverse speed: x2, x8, x50, x100.
- If you are using **FWD ►►** or **REV◄◄** on the front panel, press and hold it for more than 1.5 sec (the longer you hold it, the faster the speed will be). When you reach the desired speed, release the button.
- For video CDs, the speed is fixed at x2, x8 or x30.
- For audio CDs, the speed is fixed at x16.
- For MP3, the speed is fixed at x8.

2 To return to normal playback, press **PLAY**.

Slow Forward / Slow Reverse

DVD | DVD-RW (VR mode) | VCD

1 During playback, press **STILL/PAUSE**.

2 Press **FWD►►** or **REV◄◄** .
- Slow motion playback will begin and sound will be muted.

3 Press **FWD►►** or **REV◄◄** repeatedly to select the required speed: 1/16, 1/8, 1/2 of the normal playback.
- If you are using **FWD ►►** or **REV◄◄** on the front panel, press and hold it for more than 1.5 sec (the longer you hold it, the slower the speed will be). When you reach the desired speed, release the button.

4 To return to normal playback, press **PLAY**.
- You cannot play the VCD in reverse slow motion.

Zoom

DVD | DVD-RW (VR mode) | VCD

The Zoom function allows you to enlarge the video image and to pan through the enlarged image.

1 Press **ZOOM** during playback.
- Playback will continue.

2 Press **ZOOM** repeatedly to select the required zoom factor: x2, x4 or OFF.

3 Use **Arrow** (▼/ ▲/ ►/ ◄) to move the zoomed picture across the screen.

4 To exit zoom mode, press **ZOOM** to OFF.

NOTES:
- Zooming function does not work while disc menu is shown.
- x4 zoom is not available on some discs.
- Only x2 zooming is available for VCD.

Track

CD | VCD (without PBC function)

There are three ways to begin playback on an Audio CD at a specific Track.

Using the Numerical key pad

1 Press the **numerical key pad** to enter the desired Track number.
- Playback will start at the selected track.
- For single digit tracks (1-9), press a single number (eg. track 3, press 3).
- To play track 26, press +10, 2, 6 on the numerical key pad.

Using the DIRECT SKIP.

1 Press **DIRECT SKIP**.
- The track search display appears.

2 Within 30 seconds, select a desired track number using the **numerical key pad**. For single digits press "0" first.
- Playback will start at the selected track.

Using the SKIP I◄◄ ►►I

During playback, press **SKIP ►►I** to move to the next track. Press it repeatedly to skip subsequent tracks. Press **SKIP I◄◄** to go back to the beginning of the current track. Press it repeatedly to go to the previous tracks.
- Track number will appear briefly on the DVD display panel.
- If SKIP is pressed while the playback is paused, the playback will be paused again after skipping to the next track.

NOTE:
- **SKIP I◄◄ ►►I** are not available when playback is stopped.

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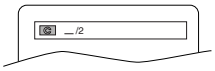
Title / Chapter Search

DVD | DVD-RW (VR mode)

1 Press **DIRECT SKIP** once for the Chapter search, twice for the Title search during playback.



2 Enter the desired chapter/title number using the **numerical key pad**.

Time Search

DVD | CD | DVD-RW (VR mode) | VCD (without PBC function)

1 During playback, press **DIRECT SKIP** three times (CD: twice) to display the Time Search on the TV screen.

2 Within 30 seconds, enter a desired disc time using the **numerical key pad**.
- Playback will start at the specified time.

NOTE:
- Press **CLEAR** to erase the incorrect input.

Repeat

- **REPEAT** are available only during playback.

REPEAT TITLE / CHAPTER

DVD | DVD-RW (VR mode)

To activate the repeat function, press **REPEAT** during playback.
- The repeat mode changes as described below every time you press the button.

CHAPTER (**current chapter** repeat) → **TITLE** (**current title** repeat) → **OFF** (repeat **off**) → **CHAPTER**

NOTES:
- Repeat Title/Chapter is not available with some scenes.
- The REPEAT setting will be cleared when moving to other title or chapter.

REPEAT TRACK

CD | VCD (without PBC function)

To activate the repeat function, press **REPEAT** during playback.
- The repeat mode changes as described below every time you press the button.

TRACK (**current track** repeat) → **ALL** (**entire disc** repeat) → **OFF** (repeat **off**) → **TRACK**

NOTES:
- The REPEAT setting will be cleared when moving to other track.
- Repeat playback does not function during A-B REPEAT playback.
- Repeat playback is not available when you play the Video CD with PBC function.

A-B REPEAT

DVD | CD | DVD-RW (VR mode) | VCD

1 Press **A-B REPEAT** at your chosen starting point.
- **A-** appears briefly on the TV screen.

2 Press **A-B REPEAT** again at your chosen end point.
- **A-B** appears briefly on the TV screen, and the repeat sequence begins.

3 To exit the sequence, press **A-B REPEAT** .

NOTES:
- The A-B REPEAT section can only be set within the current title (for DVDs), or current track (for audio CDs).
- A-B REPEAT is not available with some scenes in DVD.
- To cancel the A point which was set, press **CLEAR**.
- A-B REPEAT playback does not function during title, chapter, track or all repeat playback.

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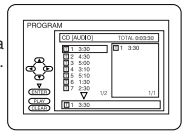
Programme

CD

You may determine the order in which tracks will play.

1 Press **MODE** (playback must first be stopped).
- The PROGRAM screen will appear.



2 Press ▲ or ▼ to select a track, then press **ENTER**.
- Press **CLEAR** to erase the most recently entered programme.

3 Press **PLAY** to play the programmed tracks.

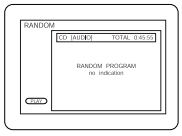
NOTES:
- While the programme is being played back, the **STOP** works as follows.
- Press **STOP** once and then **PLAY** again, playback will restart from the point where **STOP** was pressed. (Programme continued)
- Press **STOP** twice and then **PLAY** again, playback will restart from the track in the usual way. (Programme cleared)
- Up to 99 programmes can be entered.
- If you like to repeat the current track in the programme, press **REPEAT** repeatedly until **TRACK** appears during playback. If you like to repeat the entire programme press **REPEAT** repeatedly until **ALL** appears during playback.

Random Playback

CD

This shuffles the playing order of tracks instead of playback in the sequence.

1 In stop mode, press **MODE** twice.
- RANDOM screen appears.



2 Press **PLAY** to start random playback.

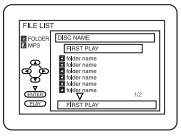
NOTES:
- If you like to repeat the current track in the random selection, press **REPEAT** repeatedly until **TRACK** appears during playback. If you like to repeat the entire random selection press **REPEAT** repeatedly until **ALL** appears during playback.

MP3 Playback

MP3

When a CD with MP3 files is inserted in the DVD player, the MP3 menu will appear on the TV screen, and number of tracks is displayed on the front panel.

1 In stop mode, press ▲ or ▼ to select the desired group or track.
- If a group is selected, press ► or **ENTER** to go on to the track selection screen. Press ▲ or ▼ to choose a track, then press **PLAY** or **ENTER**.
- If a track is selected, press **PLAY** or **ENTER** to start playing tracks. Starting from the one you've just chosen the subsequent tracks will be played.
- Choose FIRST PLAY to start playback from the beginning of the listed tracks.
- Press **TITLE** to return to the first item.



2 Press **STOP** to stop playback.

NOTES:
- Folders are known as Groups; files are known as Tracks.
- MP3 files are accompanied by icon.
- Maximum of 255 folders can be recognized.
- Maximum of 256 files can be recognized.
- Up to 8 hierarchies can be created.

This player recommends the use of files recorded at the below specifications:
- Sampling frequency: 44.1kHz or 48kHz
- Constant bit rate: 112kbps ~ 320kbps.

On-Screen Information

MP3

You can check the MP3 files during playback.

1 Press **ONSCREEN**.
- The name of the file currently in play will be displayed.

2 Press **ONSCREEN** again to show the track number, the elapsed time, the repeat status, and the playback status at the top of the screen.
- will be displayed when the repeat play has been selected.
  - T - indicates Track repeat
  - G - indicates Group (folder) repeat
  - A - indicates Disc repeat

3 Press **ONSCREEN** again to exit.

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Track Selection

MP3

1 Press **DIRECT SKIP** during playback.
- The FILE LIST will appear.

2 Select a desired track using **Arrow** (▼/▲/►/◄).
- Press ► when you want to go to the next hierarchy.
- Press ◄ when you want to go back to the previous hierarchy.

3 Press **PLAY** to start playing

NOTES:
- Press DIRECT SKIP to EXIT.
- Some selections may take a while to be found.

Random Playback

MP3

1 Press **MODE** twice while playback is stopped.

2 Press **PLAY** to play the tracks in random order.

Programme

MP3

This feature allows you to programme a mp3 disc to play in a desired sequence.

1 Press **MODE** (playback must first be stopped).
- The PROGRAM screen will appear.

2 Press ▲ or ▼ to select a track, then press **ENTER**, to save it in a programme.
- Press **CLEAR** to erase the incorrect input.

3 Press **PLAY** to start programmed playback.

Audio Language

DVD DVD-RW VR mode

The DVD player allows you to select a language during DVD disc (if multi language available) playback.

1 Press **AUDIO** during playback.

2 Press **AUDIO** repeatedly to select your desired language.

NOTES:
- Pressing **AUDIO** cycles the sound mode through MAIN, SUB, MAIN + SUB.
- DVD-RW discs recorded in double sound (two languages) can be played back in either sound mode of MAIN, SUB or MAIN + SUB.
- The sound mode cannot be changed during playback of discs not recorded in double sound.

Stereo Sound Mode

CD VCD

1 Press **AUDIO** repeatedly during playback to select between STEREO, L-CH or R-CH.

STEREO - both right and left channels are active (stereo)
L-CH - only left channel is active
R-CH - only right channel is active

NOTES:
- If the Virtual Surround setting is ON, the sound mode will be fixed to STEREO, and can not be changed.
- Stereo sound mode will not be changed when playing DTS CD.

Subtitle Language

DVD DVD-RW VR mode

The DVD player allows you to select a language for subtitle during DVD disc (if available) playback.

1 Press **SUBTITLE** during playback.

2 Press **SUBTITLE** repeatedly to select your desired subtitle language.
- The selected language will be displayed on the display bar at the top of the screen.

3 To turn off subtitles, press **SUBTITLE** repeatedly until OFF appears.

NOTES:
- Pressing **AUDIO** may not work on some DVDs with multiple audio languages (e.g. DVDs which allow audio language setting on the disc menu).
- Some discs allow audio language setting/subtitle language setting on the disc menu. (Operation varies between discs, so refer to the manual accompanying the disc.)
- If the desired language is not shown after pressing **SUBTITLE** several times, the disc does not have subtitles in that language.
- If you choose a Language that has a 3 letter language code, the code will be displayed every time you change the Subtitle language setting. If you choose any other languages, '---' will be displayed instead. (Refer to page 21.)

Camera Angle

DVD

Some DVD discs contain scenes which have been shot simultaneously from various angles. You can change the camera angle when the ( ) icon appears on the screen.

1 Press **ANGLE** during playback.
- The selected angle will be displayed on the display bar at the top of the screen.

2 Press **ANGLE** repeatedly to select your desired angle.

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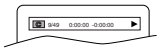
Changing the On-Screen Display

DVD | DVD-RW (VR mode)

You can check information about the current disc by pressing **ONSCREEN** on the remote control.

1 Press **ONSCREEN** during playback to show current Chapter.

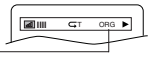


- The elapsed and remaining playing time of the current chapter will be displayed.

2 Press **ONSCREEN** again to show current Title.
- The elapsed and remaining playing time of the current title will be displayed.

3 Press **ONSCREEN** again.
- The BIT RATE and the current repeat setting will be displayed.
- If you are playing a dual layered disc, the layer number will also be displayed (L0: Layer 0 is playing. L1: Layer 1 is playing).

If you are playing a DVD-RW with setting the PLAYLIST, the following will also be displayed.



ORG: Playing the ORIGINAL.
PL: Playing the PLAYLIST.

4 Press **ONSCREEN** the fourth time to remove the display.

CD | VCD (without PBC function)

1 Press **ONSCREEN** during playback, the current Track will be displayed on the TV screen.
- The elapsed and remaining playing time of the current track will be displayed.

2 Press **ONSCREEN** again to show current Total Track.
- The elapsed and remaining playing time of the current total track will be displayed.

3 Press **ONSCREEN** again to remove the display.

Marker Setup Screen

DVD | CD | DVD-RW (VR mode) | VCD (without PBC function)

Use markers to memorise your favourite places on a disc.

1 Press **MARKER** during playback.
- The display screen and Markers will appear on the TV screen.

2 Press ◄ or ► to select 1, 2, 3, 4, 5, 6, 7, 8, 9, or 10 and ensure that "- : - - : - -" appears in the display.

3 When reaches the desired point, press **ENTER**.
- Selected number will turn to ☑ and the point will be marked.
- The Title or Track and elapsed playing time will appear in the TV screen.

4 To return to the Marker later, press **MARKER** during playback and ◄ or ► to choose the desired marker (one of the ☑ mark), then press **ENTER**.

NOTES:
- Opening the disc tray or turning off the power or select "AC" (All Clear) at step 2 and press **ENTER** will erase all Markers.
- To clear a marker, using ◄ or ►, position the cursor on to the marker number to be cleared and press **CLEAR**.
- You can mark up to 10 points.

5 Press **MARKER** or **RETURN** to exit.

Digital Gamma Setting

DVD | DVD-RW (VR mode) | VCD

DIGITAL GAMMA is a digital image quality enhancement function that gives a richer image by brightening the darker and more obscure portions of the image without altering the brightness of the brighter portions, thereby making the entire image easier to see. Three digital gamma settings are available to allow for differences in the images played and in brightness of the room.

1 Press **GAMMA** during playback.
- The current setting appears.

2 Press **ENTER** to switch 1,2,3,OFF.

1,2,3 : Makes the dark parts brighter.
OFF : Shows the original picture as recorded or GAMMA.

3 Press **RETURN** or **GAMMA** to exit.

Virtual Surround

You can enjoy stereophonic visual space on your existing stereo system.

DVD | CD | MP3 | DVD-RW (VR mode) | VCD

1 Press **MODE** during playback.

2 Press **ENTER** to set it 1(Natural effect), 2(Emphasized effect) or OFF.

3 Press **MODE** or **RETURN** to exit.

NOTE (for CD or VCD play only):
- Virtual Surround will not be effective if the sound mode is set to something other than STEREO.
- Turn down the level or turn it "OFF" if the sound is distorted.

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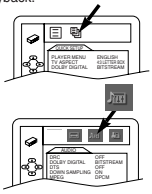
Audio Setting

Choose the appropriate settings for best sound reproduction dependent on your externally connected equipment.
These settings only affect DVD audio playback.



1 Press **SETUP** in STOP mode.
2 Press ▶ to select (CUSTOM), then press **ENTER**.
• On screen menu will appear.
3 Press ▶ to select (AUDIO), then **ENTER** to confirm.
4 Press ▲ or ▼ to select the below items, then press **ENTER**.

DRC (Dynamic Range Control) :
• To compress the range of sound volume.
• The default setting is OFF.

DOLBY DIGITAL :
Set to BITSTREAM when the player is connected to Dolby Digital Decoder.
(BITSTREAM : Output by Dolby Digital)
(DPCM : Convert the Dolby Digital to PCM)
• The default setting is BITSREAM.
• You can also adjust the setting from (QUICK) setup menu.

DTS :
Set to BITSTREAM when the player is connected to DTS Decoder. (BITSTREAM : Output by DTS)
• The default setting is OFF.

DOWN SAMPLING :
• Set to ON when outputting in 48kHz.
• Set to OFF when outputting in 96kHz.
• The default setting is ON.

NOTE:
• When you play a disc that has copyright protection, down sampling will be at 48 kHz, even if you set DOWN SAMPLING to OFF.

MPEG :
Set to BITSTREAM when the player is connected MPEG Decoder.
(BITSTREAM: Output by MPEG)
(DPCM: Convert the MPEG to PCM)
• The default setting is DPCM.

5 Press **SETUP** to exit.

Parental Control

Parental Control limits the disc viewing that exceed your settings. (with a password or playback will stop.)
This feature allows you to prevent discs with alternative scenes from being played by your children.

PARENTAL LEVEL

Parental Level allows you to set the rating level of your DVD discs. Playback will stop if the disc's ratings exceed the level you set.

1 Press **SETUP** in STOP mode.
2 Press ▶ to select (CUSTOM), then press **ENTER**.
3 Press ▶ to select (PARENTAL), then press **ENTER**.
4 Enter your four-digit password then press **ENTER**.
5 Press ▲ or ▼ to select PARENTAL LEVEL, then press **ENTER**.
6 Press ▲ or ▼ to select the desired level (ALL to LEVEL 1), then press **ENTER**.
• The rating levels continue on two menu screens. Press ▲ or ▼ to move to the next or previous screen to find the rating level.
7 Press **SETUP** to exit.

NOTES:
• When setting the password for the first time enter any 4 digits, except for 4737 which is the master password in case you forget yours.
• To change the password, press ▲ or ▼ to select CHANGE at step 5, then press **ENTER**. Enter the four-digit pass-word, then press **ENTER**.
• With some DVDs, it may be difficult to find if they are compatible with parental lock. Be sure to check if the parental lock function operates in the way that you have set.
• Record the password in case you forget it.

IF YOU FORGET THE PASSWORD

1 Press **4**, **7**, **3**, **7** at step 4 in the PARENTAL LEVEL section.
• Password will be cleared and parental level will be set to ALL.
2 Proceed the steps 4-7 again to set parental level.

PARENTAL CONTROL LEVELS

• **ALL** All parental lock is cancelled.
• **Level 8** DVD software of any grade (adult/general/children) can be played back.
• **Levels 7 to 2** Only DVD software intended for general use and children can be played back.
• **Level 1** Only DVD software intended for children can be played back, with those intended for adult and general use prohibited.

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Display Setting

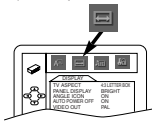
You can change certain aspects of the DVD display screens, on-screen messages and the display panel on the front of the DVD player.

1 Press **SETUP** in STOP mode.

2 Press ▶ to select (CUSTOM), then press **ENTER**.
- On screen menu will appear.

3 Press ▶ to select (DISPLAY), then **ENTER** to confirm.

4 Press ▲ or ▼ to select the below items, then press **ENTER**.



TV ASPECT :
- Press ▲ or ▼ for an item selection, then press **ENTER**.
- Select 4:3 LETTER BOX for a black bars appears on top and bottom of the screen.
- Select 4:3 PAN & SCAN for a full height picture with both sides trimmed.
  PAN & SCAN is only available on DVDs recorded with this option, if not LETTER BOX mode will be used.
- Select 16:9 WIDE if a wide-screen TV is connected to the DVD player.
- The default setting is 4:3 LETTER BOX.
- You can also adjust the setting from (QUICK) setup menu.

PANEL DISPLAY :
- Press ▲ or ▼ for an item select BRIGHT, DIMMER and AUTO, then press **ENTER**.
- This adjust the brightness of the display panel with the factory default BRIGHT.
- When AUTO is selected, the display dims only during playback.

  NOTE:
  - You can change the PANEL DISPLAY setting (BRIGHT or DIMMER) by pressing **DIMMER** on the remote control.

ANGLE ICON :
- Press **ENTER** repeatedly to turn Angle icon ON or OFF.
- The default setting is ON.

AUTO POWER OFF :
- Press **ENTER** repeatedly to turn Auto Power off ON or OFF.
- The default setting is ON and it will turn the DVD player to off automatically after 35 minutes of no use.

VIDEO OUT :
- Press **ENTER** repeatedly to turn video out PAL or AUTO.
- The default setting is PAL.

When playing an NTSC disc
- **If you have a PAL TV**, select PAL; the modified PAL signal will be output.
- **If you have a NTSC TV or Multi system TV**, select AUTO; the NTSC signal will be output.

5 Press **SETUP** to exit.

NOTE:
- Be sure to press the **SETUP** button, or the setting will not work.

Language Setting

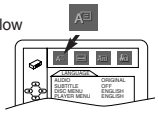
Language options are not available with some discs.

1 Press **SETUP** in STOP mode.

2 Press ▶ to select (CUSTOM), then press **ENTER**.
- On screen menu will appear.

3 Press ◀ or ▶ to select (LANGUAGE), then **ENTER** to confirm.

4 Press ▲ or ▼ to select the below items, then press **ENTER**.



AUDIO :
- Sets the audio language.

SUBTITLE :
- Sets the subtitle language.

DISC MENU :
- Sets the language for DVD Menu.

PLAYER MENU :
- Sets the language for the On-Screen display.
- You can also adjust the setting from (QUICK) setup menu.

5 Press ▲ or ▼ to select a setting, then press **ENTER**.
- If OTHER is selected in the AUDIO, SUBTITLE or DISC MENU screen, press four-digit number to enter the code for the desired language. (Refer to the language code list on the next page).
- Only the languages supported by the disc can be selected.

6 Press **SETUP** to exit.

NOTE:
- Language Setting for Audio and Subtitle is not available with some discs. Then use **AUDIO** and **SUBTITLE**. Details are on page 17.

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DVD SETUP

Language	Code
A-B	
Abkhazian	4748
Afar	4747
Afrikaans	4752
Albanian	6563
Amharic	4759
Arabic	4764
Armenian	5471
Assamese	4765
Aymara	4771
Azerbaijani	4772
Bashkir	4847
Basque	5167
Bengali;Bangla	4860
Bhutani	5072
Bihari	4854
Bislama	4855
Breton	4864
Bulgarian	4853
Burmese	5971
Byelorussian	4851
C-E	
Cambodian	5759
Catalan	4947
Chinese [CHI]	7254
Corsican	4961
Croatian	5464
Czech	4965
Danish [DAN]	5047
Dutch [DUT]	6058
English [ENG]	5160
Esperanto	5161
Estonian	5166
F-H	
Faroese	5261
Fiji	5256
Finnish [FIN]	5255
French [FRE]	5264
Frisian	5271
Galician	5358
Georgian	5747
German [GER]	5051
Greek [GRE]	5158
Greenlandic	5758
Guarani	5360
Gujarati	5367
Hausa	5447
Hebrew	5569
Hindi	5455
Hungarian [HUN]	5467
I-K	
Icelandic [ICE]	5565
Indonesian	5560
Interlingua	5547
Interlingue	5551
Inupiak	5557
Irish [IRI]	5347
Italian [ITA]	5566
Japanese [JPN]	5647
Javanese	5669
Kannada	5760
Kashmiri	5765
Kazakh	5757
Kinyarwanda	6469
Kirghiz	5771
Kirundi	6460
Korean [KOR]	5761
Kurdish	5767
L-N	
Laothian	5861
Latin	5847
Latvian;Lettish	5868
Lingala	5860
Lithuanian	5866
Macedonian	5957
Malagasy	5953
Malay	5965
Malayalam	5958
Maltese	5966
Maori	5955
Marathi	5964
Moldavian	5961
Mongolian	5960
Nauru	6047
Nepali	6051
Norwegian [NOR]	6061
O-R	
Occitan	6149
Oriya	6164
Oromo(Afan)	6159
Panjabi	6247
Pashto;Pushto	6265
Persian	5247
Polish	6258
Portuguese [POR]	6266
Quechua	6367
Rhaeto-Romance	6459
Romanian [RUM]	6461
Russian [RUS]	6467
S	
Samoan	6559
Sangho	6553
Sanskrit	6547
Scots Gaelic	5350
Serbian	6564
Serbo-Croatian	6554
Sesotho	6566
Setswana	6660
Shona	6560
Sindhi	6550
Singhalese	6555
Siswat	6565
Slovak	6557
Slovenian	6558
Somali	6561
Spanish [SPA]	5165
Sundanese	6567
Swahili	6569
Swedish [SWE]	6568
T	
Tagalog	6658
Tajik	6653
Tamil	6647
Tatar	6666
Telugu	6651
Thai	6654
Tibetan	4861
Tigrinya	6655
Tonga	6661
Tsonga	6665
Turkish [TUR]	6664
Turkmen	6657
Twi	6669
U-Z	
Ukrainian	6757
Urdu	6764
Uzbek	6772
Vietnamese	6855
Volapuk	6861
Welsh	4971
Wolof	6961
Xhosa	7054
Yiddish	5655
Yoruba	7161
Zulu	7267

If you choose a Language that has a 3 letter language code, the code will be displayed every time you change the Audio or Subtitle language setting on page 17. If you choose any other languages, '---' will be displayed instead. (3 letter language code is written in bracket.)

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TROUBLESHOOTING GUIDE

If the DVD player does not perform properly when operated as instructed in this Operation Manual, check the player, consulting the following checklist.

Problem	Solution
No power	–Check if the AC power cord is properly connected.
No picture	–Check if the TV is switched on. –Check the video connection.
Distorted picture	–Sometimes a small amount of picture distortion may appear. This is not a malfunction.
Completely distorted picture or black/white picture with DVD	–Connect DVD player directly to the TV. –Make sure the disc is compatible with the DVD player.
No sound or distorted sound	–Adjust the volume. –Check that the speakers are connected correctly.
No audio at digital output	–Check the digital connections. –Check if the audio format of the selected audio language matches your receiver capabilities.
No DTS audio at analogue output.	–Use a DIGITAL AUDIO OUT jack when outputting the DTS audio.
No sound and picture	–Check that the VIDEO/AUDIO cable is connected to the correct device (See Connecting to a TV).
Picture freezes momentarily during playback	–Check the disc for fingerprints/scratches and clean with a soft cloth wiping from center to edge.
Disc can't be played	–Ensure the disc label is facing up. –Check if the disc is defective by trying another disc.
No return to start-up screen when disc is removed	–Reset the player by switching the player off, then on again.
The player does not respond to the remote control	–Aim the remote control directly at the sensor on the front of the player. –Reduce the distance to the player. –Replace the batteries in the remote control. –Re-insert the batteries with their polarities (+/– signs) as indicated.
Buttons do not work or player stops responding	–To completely reset the player, unplug the AC cord from the AC outlet for 5-10 seconds.
Player does not respond to some operating commands during playback.	–Operations may not be permitted by the disc. Refer to the instructions of the disc.
DVD player cannot read CDs/DVDs	–Use a commonly available cleaning CD/DVD to clean the lens before sending the DVD player for repair.

NOTES:

Some functions are not available in specific modes, but this is not a malfunction. Read the description in this Operation Manual for details on correct operations.

- Playback from a desired track and random playback are not available during programme playback.

If you are unable to remedy a problem by following these hints, consult your dealer or service centre.

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SPECIFICATIONS

PRODUCT TYPE
DVD Player

DISCS (PLAYBACK COMPATIBILITY)
DVD Video
Audio CD
Video CD
CD-R / RW
DVD-R / RW

OUTPUT SIGNAL FORMAT
PAL colour

FREQUENCY RESPONSE

DVD (linear sound) :	20 Hz to 20 kHz (sample rate: 48 kHz)
	20 Hz to 44 kHz (sample rate: 96 kHz)
CD :	20 Hz to 20 kHz

SIGNAL-TO-NOISE RATIO (S/N RATIO)

CD :	120 dB (JEITA)

DYNAMIC RANGE

DVD (linear sound) :	102 dB
CD :	99 dB (JEITA)

TOTAL DISTORTION FACTOR

DVD :	0.0025% (JEITA)
CD :	0.003% (JEITA)

WOW AND FLUTTER
Below the measurement limitation (+/-0.001% W PEAK) (JEITA)

CONNECTIONS

Video output	One RCA connector, 1 Vpp (75 ohm)
Component video output	One pin jack (Y), 1 Vpp (75 ohm)
	Two pin jacks C_R/C_B, 700m Vpp (75 ohm)
S-Video output	Mini DIN 4-pin jack (75 ohm)
Analog audio output	Two RCA connectors (one left channel, one right channel) 2 Vrms (100 kilo-ohm)
Coaxial digital audio output	One pin jack, 500mVpp (75 ohm)

POWER SOURCE
110-240 V ~ +/- 10%, 50/60Hz +/- 0.5%

POWER CONSUMPTION
15W (standby: 2W)

OPERATING TEMPERATURE
41F° to 104F° (5°C to 40°C)

DIMENSIONS
W 17 9/64" (435mm)
H 2 11/64" (55mm)
D 8 5/16" (211mm)

WEIGHT
Approx 4.0lbs. (1.8kg)

- **Designs and specifications are subject to change without notice.**
- **If there is a discrepancy between languages, the default language will be English.**

MAINTENANCE

Cleaning the Cabinet

- Use a soft cloth slightly moistened with a mild detergent solution. Do not use a solution containing alcohol, spirits, ammonia or abrasives.

Cleaning Discs

- When a disc becomes dirty, clean it with a cleaning cloth. Wipe the disc from the center out. Do not wipe in a circular motion.
- Do not use solvents such as benzine, thinner, commercially available cleaners, detergent, abrasive cleaning agents or antistatic spray intended for analogue records.

Cleaning the disc lens

- If the player still does not perform properly when it is operated while referring to the relevant sections and to "TROUBLESHOOTING GUIDE" in this Operation Manual, the laser optical pickup unit may be dirty. Consult your dealer or an Authorized Service Center for inspection and cleaning of the laser optical pickup unit.

Disc Handling

- Use discs which have the following logos on them. (Optical audio digital discs.)

- Handle the discs so that fingerprints and dust do not adhere to the surfaces of the discs.
- Always store the disc in its protective case when it is not used.

Make your contribution to the environment!!!

- Used up batteries do not belong in the dust bin.
- You can dispose of them at a collection point for used up batteries or special waste. Contact your council for details.

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Osaka, Japan

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